

SWETHA CHOWDARY NARRA

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Full-stack developer with 2+ years experience skilled in architecting **cloud-native services** and **modern UIs**. Proficient in APIs (ASP.NET Core/Spring/Node), React, SQL/Postgres/Kafka, and serverless cloud delivery on Azure/AWS. Most recently, delivered 5+ microservices and hardened CI/CD pipelines for a critical statewide platform used by 300+ hospitals with zero-downtime releases.

PROFESSIONAL EXPERIENCE

Full Stack Software Engineer, Ohio Department of Health Jun 2024 – Present | Columbus, Ohio

- Modernizing a mission-critical app from **.NET monolith** to **25+ microservices** while owning **full stack** (Blazor UI, APIs, data).
- Re-architected data access with **Cosmos DB + SQL Server**, **doubling** effective read/write throughput for high-volume services.
- Improved **front-end load times** using Blazor by **~1.5s** on average, usability tests showed higher stakeholder engagement.
- Cut **query latency** from **800ms to 300ms** using SQL connection pooling optimizations and targeted database tuning.
- Implemented **Azure DevOps CI/CD** enabling **150+ prod releases/year** across **6 environments** with **one-click rollbacks**.
- Built and operated **20+ Azure Functions** (HTTP/Event Grid/Timer) for real-time ingestion and scheduled workflows, reducing infra load with **serverless** patterns.
- Automated SQL executions with **JAMS Scheduler** for multi-env **stored-procedure updates**; reduced manual errors across critical data workflows.

Research Assistant, University Of Florida May 2023 – May 2024 | Gainesville, Florida

- Launched a full-featured **LMS** for **500+ active users** (**AngularJS, HTML, CSS**), achieving uninterrupted availability using **serverless architecture on AWS** (**Lambda/S3/RDS**).
- Built a **Spring Boot authentication service** with **IdP SSO**, implementing secure token-based access (**OAuth 2.0/JWT**) and role-based authorization, ensuring seamless login, data protection, and scalability across active users.
- Delivered **real-time** notifications using **Apache Kafka**, processing **1,000+ events/day** for cross-service communication.
- Engineered **multi-threaded** server components to handle **hundreds of concurrent requests**, reducing wait times under load.
- Improved code quality with **300+ JUnit/Mockito tests**, increasing reliability and adoption across internal training teams.

Software Engineer, Optum - UnitedHealth Group May 2021 – Jun 2022 | Hyderabad, India

- Migrated legacy **VB.NET** to **ASP.NET Core 3.1 (C#)**, improving performance and maintainability while modernizing SDLC.
- Refactored **JS** into **React** components, preserving functionality across **100+ features** and improving cross-browser compatibility.
- Built a side-by-side Paper Claims comparison **web module** that saved **40+ hours/week** in manual validation for business users.
- Optimized **real-time** communications with **socket programming**, reducing response time by **45% at peak load** across **3 integrated subsystems**.
- Authored **DB stored procedures** for **650+ ICD-10 disease codes**, streamlining multi-table updates and reducing manual errors.
- Stabilized releases by **resolving 12+ critical vulnerabilities** and implementing **Jenkins CI/CD** across Dev/QA/Prod environments.

TECHNICAL SKILLS

Programming Languages: C#, Python, Java, JavaScript, TypeScript, C/C++, Kotlin, Go, PHP

Frameworks: ASP.NET Core, Spring Boot, Django, REST API, React, Angular, HTML, CSS, Bootstrap, Node.js, Express, jQuery, Hibernate

Cloud & DevOps: Azure (DevOps, Functions, Logic Apps, Service Bus), AWS (Lambda, S3, RDS), GCP, Jenkins, GitHub

Database: SQL Server, Cosmos DB, PostgreSQL, MySQL, Apache Kafka, Amazon DynamoDB, Hadoop, NoSQL

Testing and Tools: Postman, NUnit, JUnit, Mockito, Selenium, WebDriver, Visual Studio, VS Code, Eclipse, Linux

EDUCATION

Master of Science in Computer Science, University of Florida Aug 2022 – May 2024 | Florida

Bachelor of Technology in Computer Science, KL University Jun 2017 – Apr 2021 | India

CERTIFICATES

Certified Solutions Architect - Associate — Amazon Web Services, **Cloud Infrastructure 2023 Foundations Associate** — Oracle,

Certified System Administrator — ServiceNow, **Certified Advanced RPA Professional** — Automation Anywhere